

## Modernizing the Warrior through Army Transformation:

Future Force Warrior (FFW) is the Army's flagship Science and Technology initiative to develop and demonstrate revolutionary capabilities for the Future Force Soldier and Small Team. A human-centric, integrated system of systems approach is being employed to support the Army transformation into a soldier centric force. The FFW is a major pillar of the Future Force Strategy, complementing the Future Combat System (FCS) and other Future Force programs.

FFW seeks to create a lightweight overwhelmingly lethal, fully integrated combat system including head to toe individual protection, ad-hoc networking, soldier worn power sources, and enhanced human performance. The program is aimed at providing unsurpassed individual and small team lethality, survivability, communications and responsiveness — a formidable warrior in an invincible team. FFW will be fully integrated with FCS and other Future Force platforms.

### LETHALITY:

**Vision:** FFW interfaces with advanced, lightweight weapons and fire control optimized for urban combat, synchronized direct fire and indirect fire within and across FFW team, and leveraging FCS NLOS/BLOS fires.

### SURVIVABILITY:

**Vision:** Lightweight, low bulk, multi-functional, full spectrum protective combat ensemble. Ballistic protection, novel signature management, semi-permeable membrane for CB/wet protection, electrotexile power/data body LAN. On-board physiological/medical sensor suite with enhanced casualty care. Customized voice, tactile, visual and auditory human interface, with integrated laser eye protection.

### NETWORKING COMMUNICATIONS/COLLABORATIVE SITUATIONAL AWARENESS (NC/CSA):

**Vision:** Netted OFW small unit/teams with robust team communications, state-of-the-art distributed and fused (thermal and image intensification) sensors, organic tactical intelligence/collection assets, enhanced situational understanding, embedded training, on-the-move planning, and linkage to other Future Force assets.

### MOBILITY, SUSTAINABILITY, AND HUMAN PERFORMANCE:

**Vision:** Unconstrained vertical and lateral movement at full up combat/assault capability during mission execution. Objective individual soldier load weight of 40 pounds by introduction of lighter weight, multifunctional materials throughout all facets of the combat ensemble, a holistic systems approach, and offloading onto FCS robotic MULEs. Optimized cognitive and physical fightability.

### POWER:

**Vision:** 24 hours autonomous individual operation, high density, low weight/volume, reliable, safe power source/system, 72 hours continuous team operations relying on the FCS MULE for recharging/fuel replacement.

"The FUTURE FORCE WARRIOR will be a formidable warrior in an invincible team. EXPLOITING THE POWER OF THE FORCE. by seeing first, understanding and acting first, finishing decisively, and surviving and enduring."



A Partnership Effort Premised on Technology Development & Integration



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# FUTURE FORCE WARRIOR

*Soldiers On Point  
For The Nation*

# ARMY TRANSFORMATION: A Soldier Centric Viewpoint

**FFW System of Systems  
Concept within the  
Unit of Action**



FCS  
Class I  
UAV

Human  
Performance  
& Embedded  
Training

Integrated  
Protective  
Headgear

Collaborative  
Networked  
Situational  
Awareness



Netted Comms/  
Collaborative  
Situational  
Awareness  
(NC/CSA)

**Unmanned Systems are  
an Integral Part of the  
FFW System of Systems  
Concept**

Ad Hoc  
Networking

Display & Sensory  
Enhancement



Full  
Spectrum  
Integrated  
Protection

24/72 Hr  
Autonomous  
Operation

Advanced  
Power Sources



FCS  
MULE

Highly Lethal  
w/ Netted Call  
for Fires



```

PQIN = &PBDOSC->RING.GETIN;
FLIX = &PBDOSC->RING.LASTIN;
PPIN = &PBDOSC->RING.PVTIN;
IF ((PQIN == PPIN) && (&PBDOSC->RING.QUOTA != 0))
    
```